

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P300602

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-RW-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9694.8 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

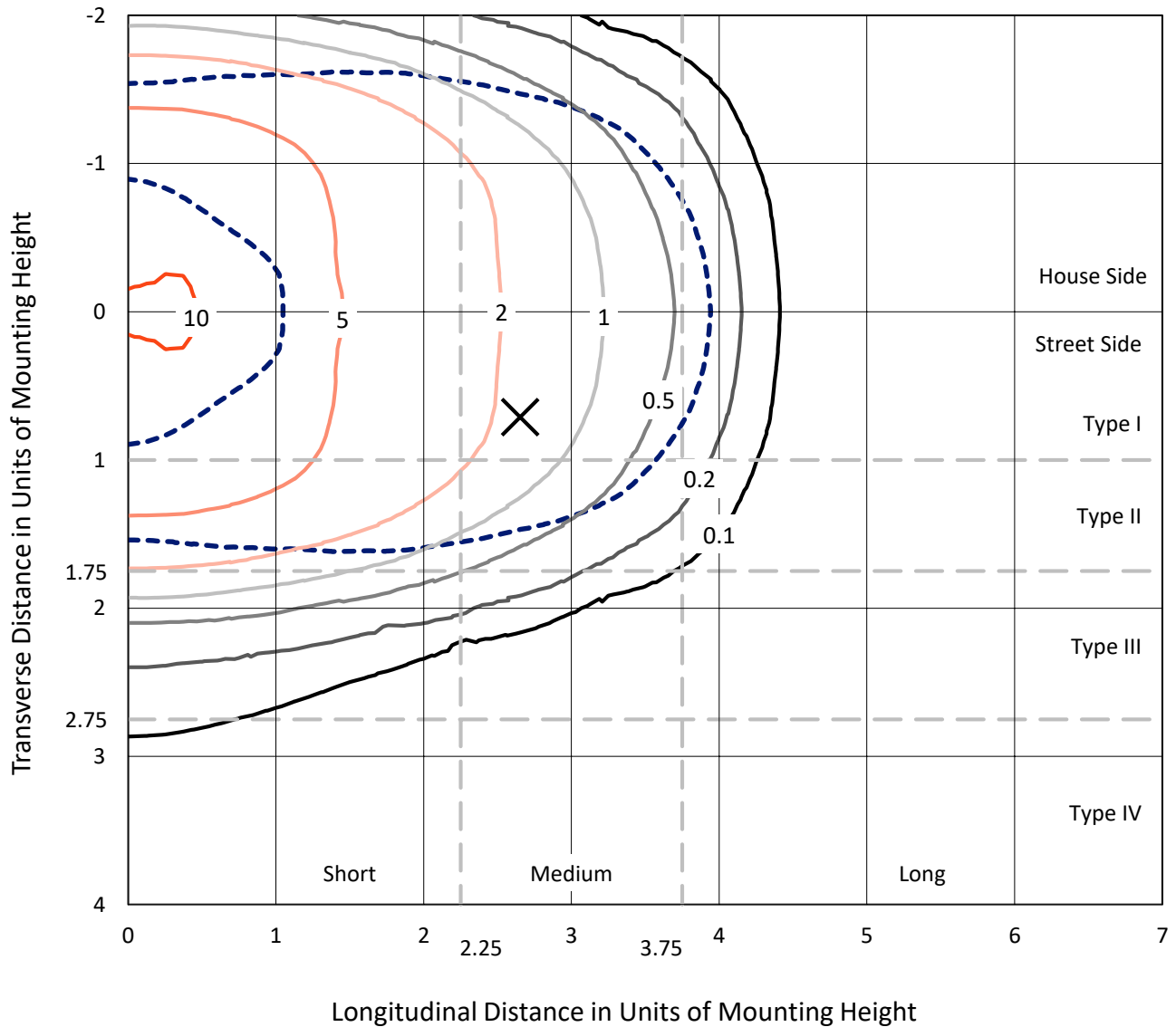
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300602
 CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

Iso-Footcandle Lines of Horizontal Illumination

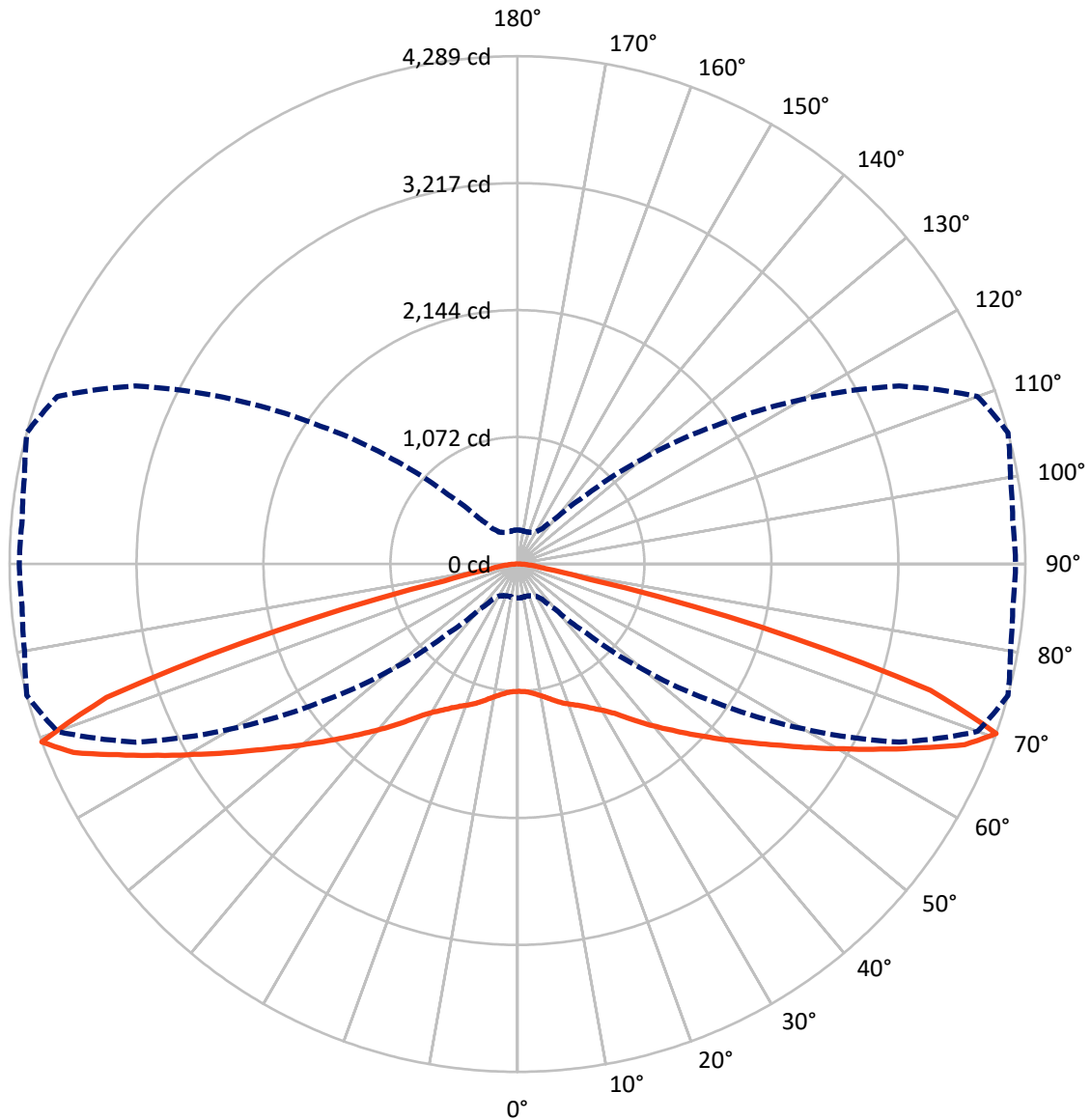
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300602
CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P300602

CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4847.4	0.0	4847.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4847.4	0.0	4847.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9694.8	0.0	9694.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.1
10°-20°	320.5	3.3
20°-30°	603.2	6.2
30°-40°	1068.1	11.0
40°-50°	1786.2	18.4
50°-60°	2489.0	25.7
60°-70°	2308.2	23.8
70°-80°	919.9	9.5
80°-90°	96.7	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9694.8	100.0
0°-180°	9694.8	100.0



REPORT NUMBER: P300602

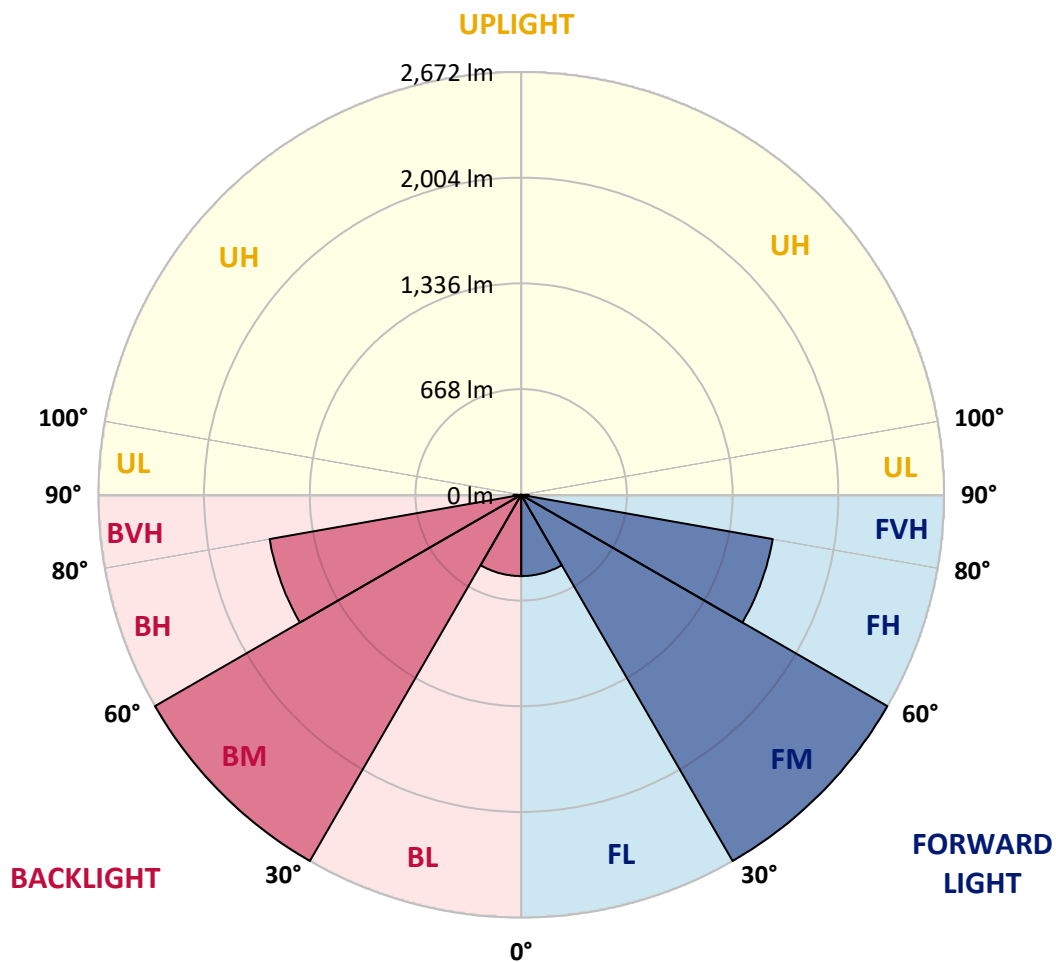
CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.4	5.3			
FM	(30°-60°)	2671.6	27.6			
FH	(60°-80°)	1614.0	16.6			G1/1800
FVH	(80°-90°)	48.3	0.5			G1/100
BL	(0°-30°)	513.4	5.3	B2/1000		
BM	(30°-60°)	2671.6	27.6	B3/5000		
BH	(60°-80°)	1614.0	16.6	B3/2500		G3/2500
BVH	(80°-90°)	48.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P300602

CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4
2.5°	1073.5	1072.6	1073.5	1073.1	1074.0	1074.0	1074.9	1076.8	1076.8	1078.1	1077.7
5°	1063.0	1062.6	1063.9	1065.3	1066.7	1069.4	1072.2	1076.3	1079.5	1081.8	1084.1
7.5°	1042.4	1042.4	1044.2	1047.4	1050.6	1056.6	1063.0	1071.3	1079.5	1086.4	1092.3
10°	1025.4	1026.4	1028.6	1034.1	1039.6	1048.8	1057.5	1069.4	1080.9	1092.3	1101.5
12.5°	1015.4	1016.7	1020.9	1029.1	1038.3	1050.6	1063.9	1079.0	1091.9	1105.6	1114.8
15°	1018.6	1019.5	1025.4	1035.5	1047.4	1063.0	1080.9	1098.7	1113.9	1128.5	1140.9
17.5°	1036.4	1037.8	1044.7	1056.1	1068.5	1086.8	1106.1	1126.2	1145.0	1161.5	1176.6
20°	1068.5	1069.9	1078.6	1091.0	1105.6	1124.4	1143.7	1164.7	1185.8	1203.2	1220.2
22.5°	1113.9	1116.2	1124.4	1136.8	1153.3	1173.4	1196.3	1218.8	1239.0	1255.0	1270.1
25°	1173.4	1178.5	1186.3	1200.0	1217.4	1235.7	1260.5	1283.4	1302.6	1317.8	1328.8
27.5°	1257.7	1264.6	1270.6	1283.9	1300.8	1318.2	1343.0	1363.1	1381.5	1396.1	1404.4
30°	1369.5	1376.4	1382.4	1395.2	1410.8	1427.3	1450.6	1468.5	1480.0	1491.4	1491.0
32.5°	1505.2	1512.5	1514.8	1528.5	1544.6	1562.4	1583.5	1593.6	1602.8	1604.1	1595.9
35°	1656.8	1660.5	1669.7	1688.0	1706.3	1721.0	1741.1	1746.2	1746.2	1739.3	1721.0
37.5°	1823.2	1825.4	1838.3	1858.9	1877.7	1892.8	1906.5	1916.6	1911.6	1896.9	1866.2
40°	2005.5	2009.6	2028.0	2046.3	2067.4	2081.6	2096.2	2098.1	2093.0	2071.5	2029.8
42.5°	2179.6	2183.3	2201.6	2230.5	2258.0	2277.7	2291.4	2294.2	2278.1	2258.4	2206.7
45°	2329.5	2339.1	2362.9	2396.8	2436.7	2464.6	2483.4	2491.2	2477.0	2451.3	2391.3
47.5°	2448.1	2457.7	2491.7	2532.0	2581.5	2626.8	2658.0	2674.5	2670.8	2651.6	2586.0
50°	2535.2	2544.3	2581.0	2630.5	2688.2	2744.6	2797.7	2837.1	2850.9	2842.2	2782.2
52.5°	2545.3	2560.4	2603.5	2669.9	2745.0	2822.0	2897.6	2964.5	3009.9	3016.7	2972.3
55°	2404.6	2419.7	2479.3	2577.8	2689.6	2815.1	2936.1	3048.8	3138.2	3184.0	3160.6
57.5°	2072.9	2099.9	2162.7	2278.1	2442.6	2630.5	2823.4	3023.6	3205.5	3326.9	3350.3
60°	1588.6	1620.6	1683.9	1806.7	1989.9	2214.0	2471.5	2767.5	3088.7	3361.8	3524.9
62.5°	1019.0	1049.3	1115.7	1222.5	1371.8	1614.7	1891.0	2242.4	2674.0	3105.2	3493.7
65°	523.7	540.2	575.0	639.6	756.0	937.5	1185.3	1535.9	2029.3	2561.3	3123.0
67.5°	331.7	334.9	342.7	351.9	381.7	444.4	559.9	778.5	1184.4	1739.3	2396.8
70°	286.8	286.8	283.2	281.8	285.5	294.2	312.0	362.9	499.9	825.7	1382.4
72.5°	262.5	259.8	253.4	248.3	247.4	247.4	251.1	258.9	280.9	336.3	541.1
75°	241.9	234.1	225.4	219.5	217.2	214.9	214.4	215.8	220.4	229.1	258.4
77.5°	216.7	206.6	196.6	190.6	187.9	184.7	181.9	178.7	176.4	179.2	192.0
80°	186.5	175.0	167.2	163.6	160.8	156.2	150.3	144.8	139.7	138.8	146.6
82.5°	150.3	137.0	137.5	138.8	133.8	127.4	121.0	115.0	106.3	101.7	106.3
85°	121.4	114.5	111.3	120.0	112.7	103.1	93.0	82.5	68.7	57.7	62.8
87.5°	47.2	47.2	70.6	108.6	97.6	79.7	68.3	58.2	36.2	27.9	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300602

CATALOG NUMBER: GLNA-AF-02-LED-E1-RW-7030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4	1075.4
2.5°	1077.2	1078.1	1077.7	1077.2	1077.2	1076.8	1077.2	1077.2
5°	1085.5	1087.8	1087.8	1088.7	1088.7	1089.1	1089.6	1089.1
7.5°	1097.8	1102.0	1104.7	1107.9	1108.4	1108.8	1109.7	1108.8
10°	1110.2	1118.5	1124.4	1130.4	1133.1	1134.0	1134.9	1134.9
12.5°	1125.8	1137.2	1147.8	1158.3	1163.4	1166.1	1166.1	1167.9
15°	1151.4	1162.9	1175.3	1189.5	1198.2	1202.8	1204.1	1204.1
17.5°	1187.6	1197.7	1208.3	1222.0	1233.0	1239.0	1240.3	1239.9
20°	1229.8	1239.4	1245.4	1254.1	1263.7	1270.6	1272.4	1272.4
22.5°	1277.9	1283.4	1284.3	1287.1	1294.9	1304.0	1308.1	1309.1
25°	1331.1	1332.4	1328.8	1328.8	1333.8	1342.5	1346.6	1347.1
27.5°	1399.8	1392.9	1383.7	1380.5	1383.7	1393.8	1398.9	1400.7
30°	1485.5	1469.0	1447.9	1436.4	1434.6	1447.9	1457.1	1458.4
32.5°	1583.5	1559.7	1531.7	1508.4	1502.4	1510.7	1521.7	1521.2
35°	1699.9	1671.5	1637.6	1607.8	1594.1	1602.3	1617.9	1619.7
37.5°	1834.1	1797.0	1758.1	1720.5	1699.0	1701.3	1717.8	1723.3
40°	1984.0	1935.9	1886.8	1836.4	1805.7	1799.8	1819.9	1823.2
42.5°	2144.3	2082.5	2020.6	1958.3	1918.9	1909.8	1933.1	1931.7
45°	2315.3	2236.4	2164.0	2095.3	2048.6	2034.8	2054.1	2054.1
47.5°	2499.0	2401.8	2315.7	2237.8	2187.0	2167.3	2185.6	2187.0
50°	2693.7	2590.6	2489.4	2402.8	2341.8	2316.6	2340.5	2344.1
52.5°	2887.5	2787.2	2685.0	2586.0	2512.3	2481.6	2509.1	2521.0
55°	3084.1	2985.6	2888.0	2791.3	2703.8	2667.6	2696.9	2712.0
57.5°	3291.7	3200.5	3107.5	3009.9	2925.6	2869.2	2900.4	2920.5
60°	3535.0	3457.1	3360.4	3252.7	3167.5	3110.2	3128.1	3146.0
62.5°	3727.4	3757.6	3675.6	3551.0	3441.5	3368.2	3385.6	3404.4
65°	3634.4	3944.6	4017.4	3891.4	3739.8	3625.7	3618.4	3628.0
67.5°	3037.8	3640.3	4079.8	4199.8	4072.9	3914.3	3885.0	3899.2
70°	2032.1	2782.6	3557.9	4135.2	4288.7	4227.3	4198.4	4207.1
72.5°	976.0	1620.6	2413.8	3181.2	3648.6	3863.0	3931.8	3965.2
75°	356.9	643.3	1163.4	1753.0	2116.4	2450.0	2667.6	2756.5
77.5°	215.4	259.8	371.6	559.5	633.7	709.3	680.0	694.6
80°	159.5	180.1	203.9	229.1	237.3	237.3	228.2	220.8
82.5°	111.8	125.1	136.5	150.3	154.0	147.1	121.0	96.2
85°	71.9	77.9	82.9	91.6	89.3	85.2	57.3	50.9
87.5°	33.0	37.6	39.4	43.5	41.7	39.9	28.4	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)